



1. 次の連立方程式を加減法で解きなさい。

$$(1) \begin{cases} -7x - 9y = -29 & \textcircled{1} \\ -7x + 7y = 35 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} - \textcircled{2} \\ -7x - 9y = -29 \\ - \quad -7x + 7y = 35 \\ \hline -16y = -64 \\ y = 4 \quad \textcircled{1} \text{に代入して} \\ -7x - 9(4) = -29 \\ 7x = 7 \\ x = 1 \end{array}$$

$$(2) \begin{cases} 8x - 2y = -26 & \textcircled{1} \\ -8x - 2y = -10 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} + \textcircled{2} \\ 8x - 2y = -26 \\ + \quad -8x - 2y = -10 \\ \hline -4y = -36 \\ y = 9 \quad \textcircled{1} \text{に代入して} \\ 8x - 2(9) = -26 \\ 8x = -8 \\ x = -1 \end{array}$$

$$(3) \begin{cases} -4x - 8y = 64 & \textcircled{1} \\ 7x + 8y = -70 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} + \textcircled{2} \\ -4x - 8y = 64 \\ + \quad 7x + 8y = -70 \\ \hline 3x = -6 \\ x = -2 \quad \textcircled{2} \text{に代入して} \\ 7(-2) + 8y = -70 \\ 8y = -56 \\ y = -7 \end{array}$$

$$(4) \begin{cases} -6x - 9y = 0 & \textcircled{1} \\ 3x - 4y = 34 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} + \textcircled{2} \times 2 \\ -6x - 9y = 0 \\ + \quad 6x - 8y = 68 \\ \hline -17y = 68 \\ y = -4 \quad \textcircled{2} \text{に代入して} \\ 3x - 4(-4) = 34 \\ 3x = 18 \\ x = 6 \end{array}$$

$$(5) \begin{cases} 4x + 2y = -30 & \textcircled{1} \\ -5x + 4y = 57 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} \times 2 - \textcircled{2} \\ 8x + 4y = -60 \\ - \quad -5x + 4y = 57 \\ \hline 13x = -117 \\ x = -9 \quad \textcircled{2} \text{に代入して} \\ -5(-9) + 4y = 57 \\ 4y = 12 \\ y = 3 \end{array}$$

$$(6) \begin{cases} 4x - y = -29 & \textcircled{1} \\ 8x + 3y = -13 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} \times 2 - \textcircled{2} \\ 8x - 2y = -58 \\ - \quad 8x + 3y = -13 \\ \hline -5y = -45 \\ y = 9 \quad \textcircled{1} \text{に代入して} \\ 4x - (9) = -29 \\ 4x = -20 \\ x = -5 \end{array}$$

$$(7) \begin{cases} -5x - 9y = 96 & \textcircled{1} \\ 3x + 4y = -45 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} \times 3 + \textcircled{2} \times 5 \\ -15x - 27y = 288 \\ + \quad 15x + 20y = -225 \\ \hline -7y = 63 \\ y = -9 \quad \textcircled{2} \text{に代入して} \\ 3x + 4(-9) = -45 \\ 3x = -9 \\ x = -3 \end{array}$$

$$(8) \begin{cases} -5x + 5y = -9 & \textcircled{1} \\ -4x + 2y = -4 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} \times 2 - \textcircled{2} \times 5 \\ -10x + 10y = -18 \\ - \quad -20x + 10y = -20 \\ \hline 10x = 2 \\ x = \frac{1}{5} \quad \textcircled{1} \text{に代入して} \\ -5\left(\frac{1}{5}\right) + 5y = -9 \\ 5y = -8 \quad y = -\frac{8}{5} \end{array}$$

$$(9) \begin{cases} -2x + 5y = -4 & \textcircled{1} \\ -3x - 4y = -7 & \textcircled{2} \end{cases}$$

$$\begin{array}{r} \textcircled{1} \times 3 - \textcircled{2} \times 2 \\ -6x + 15y = -12 \\ - \quad -6x - 8y = -14 \\ \hline 23y = 2 \\ y = \frac{2}{23} \\ \textcircled{1} \times 4 + \textcircled{2} \times 5 \\ -8x + 20y = -16 \\ + \quad -15x - 20y = -35 \\ \hline -23x = -51 \\ x = \frac{51}{23} \end{array}$$

(1) $x = -1, y = 4$	(2) $x = -1, y = 9$	(3) $x = -2, y = -7$
(4) $x = 6, y = -4$	(5) $x = -9, y = 3$	(6) $x = -5, y = 9$
(7) $x = -3, y = -9$	(8) $x = \frac{1}{5}, y = -\frac{8}{5}$	(9) $x = \frac{51}{23}, y = \frac{2}{23}$